	SampleName	",.	Inj. Volume	Channel	⊵ Dilution _
1	K63 In PBS		100,00	214nm	4,00
2	K63 in Chaps 0,25%		100,00	214nm	4,00
3	K63 In citrate		100,00	214nm	4,00

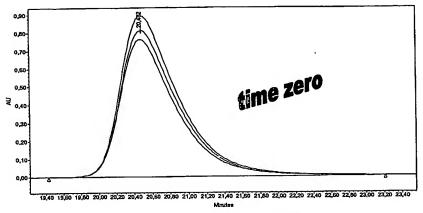


Figure 1A



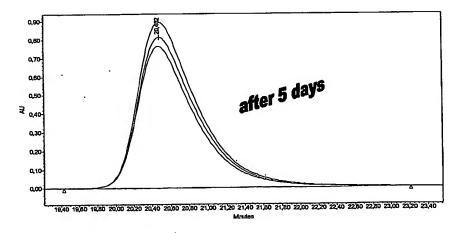


Figure 1B

Figure 1C

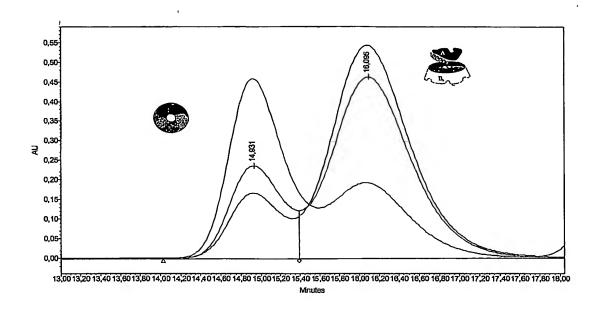
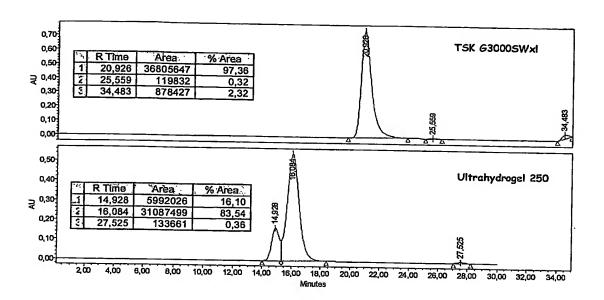
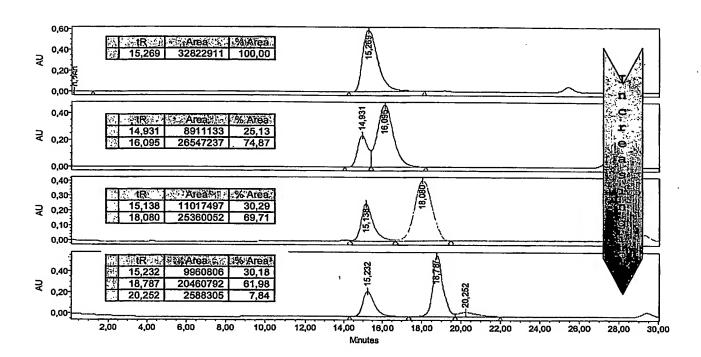


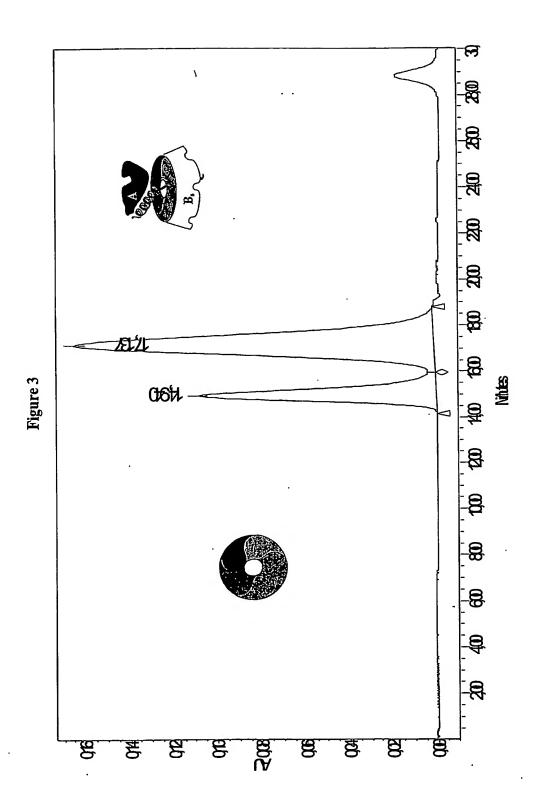
Figure 1D



Figures 2A-2D

SampleName	A Date Acquired 215 The Control of t	Eluent Carlon Control of the Control	Injection Channel	Dilution
15 PBS 5gg agitazione	09/04/2003 9.55,19	KPI 50 mM + Na2SO4 50 mM pH 7,2	100,00 214nm	4.00
2: PBS 5gg agitazione	08/04/2003 13.53.06	KPI 100 mM + Na2SO4 100 mM pH 7,2	100,00 214nm	4.00
3: PBS 5gg agitazione	09/04/2003 15.07.11	KPI 250 mM + Na2SO4 100 mM pH 7,2	100,00 214nm	4,00
4. PBS 5gg agitazione	10/04/2003 9.51.42	KPI 200 mM + Na2SO4 200 mM pH 7,2	100,00 214nm	4,00





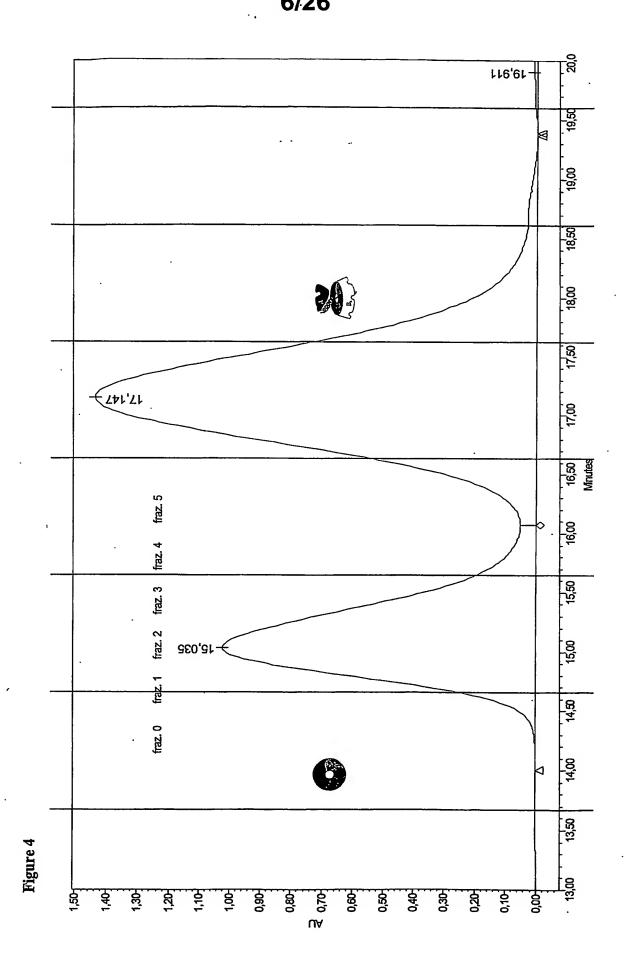


Figure 5A

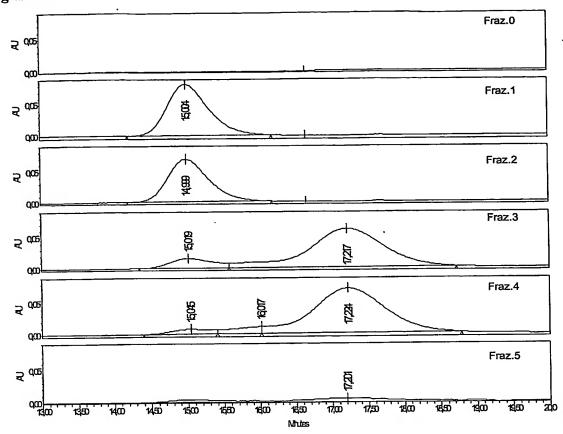
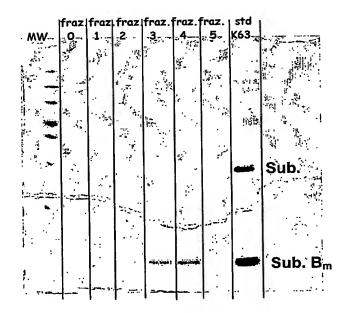


Figure 5B



66.800

14,67

29.023

16,22

57.099

M_w exp.

Rt (min)

9.611

65.607

15,07

476.316

13,13

224.340 146.980

13,58

14,10

rogenase

669.000

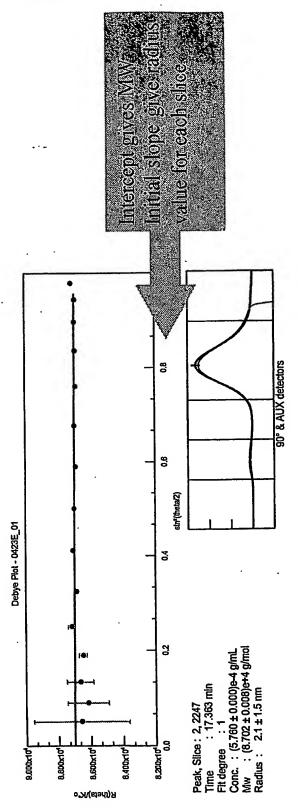
Rt (min)

Figure 5D

Figure 5C

뜊 red) (bold K63 (bold blue), Superimposition of standard proteins, CRM_{197} reference calibration curve used for apparent $M\bar{M}$ determination.







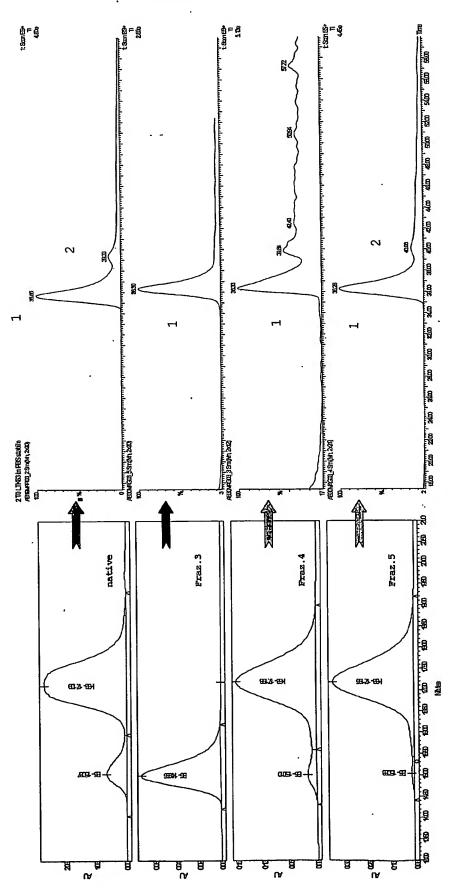


Figure 5F (a)

Figure 5F(b)

Figure 5G

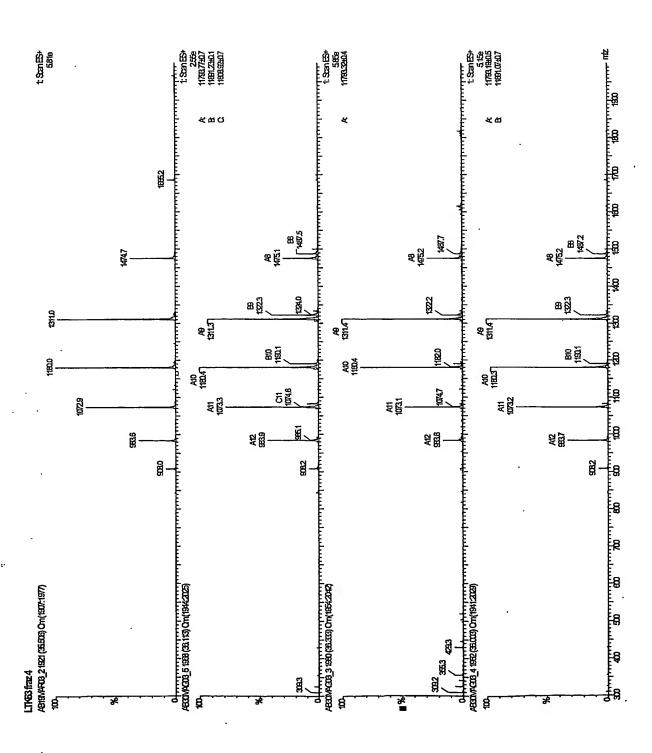


Figure 6: SDS-PAGE analysis of LTK 63 shaken samples

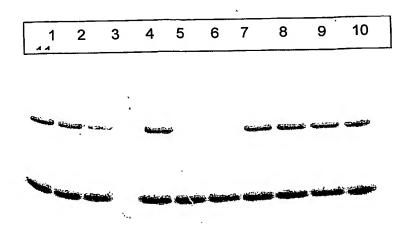


Figure 7: SDS-PAGE analysis of LTK 63 samples treated with CHAPS

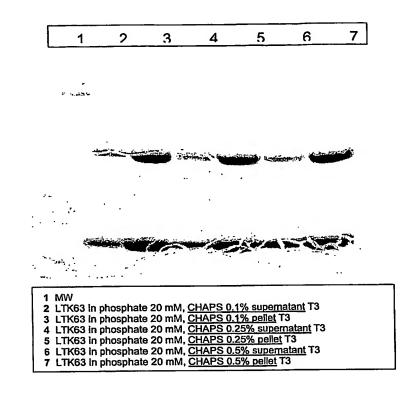


Figure 8: SDS-PAGE of LTK63 samples treated with L-Arginine

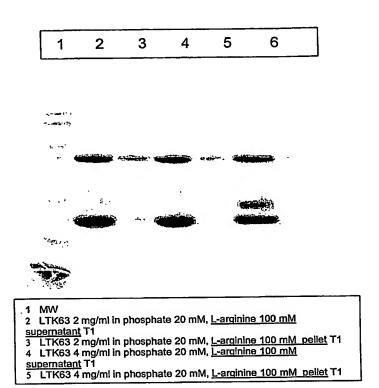


Figure 9(a): Old HPLC Method for analysing L-Arginine treated samples

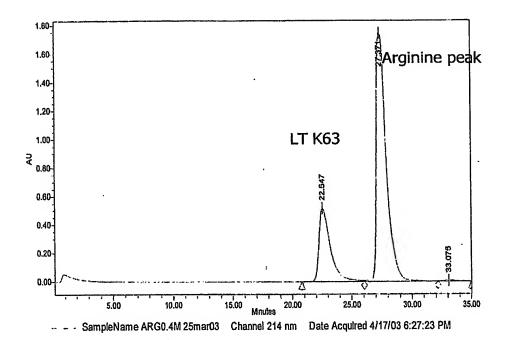


Figure 9(b): New HPLC Method for analysing L-Arginine treated samples

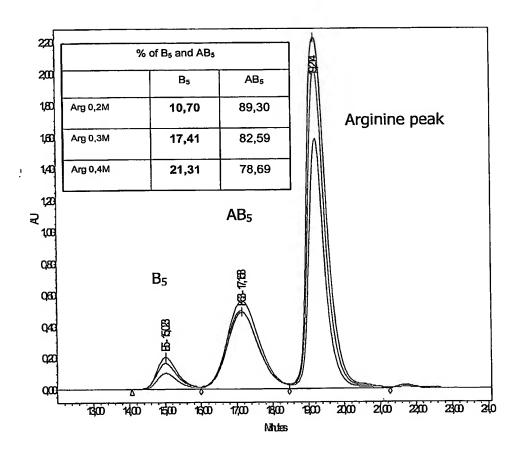
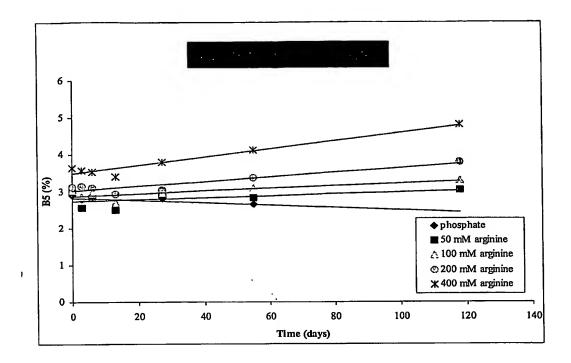


Figure 10(a): Determination of AB5 dissociation in L-Arginine treated samples and the %B5 in LTK63 at 1.3mg/ml



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Figure 10(b): Determination of AB5 dissociation in L-Arginine treated samples and the %B5 in LTK63 at 4.0 mg/ml

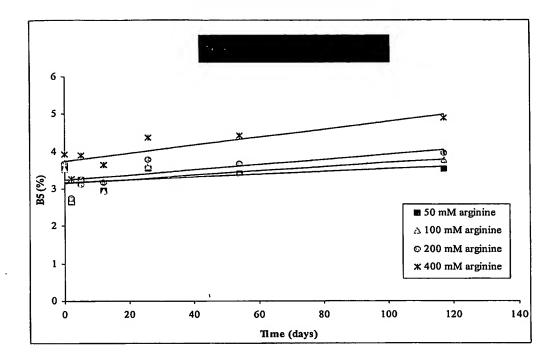


Figure 11(a): CHAPS effect on LTK63 dissociation

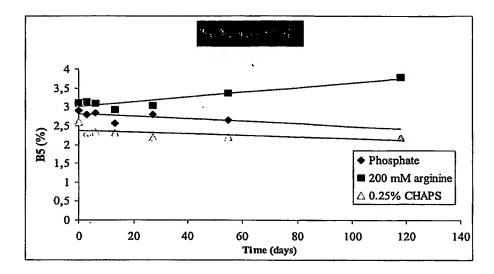


Figure 11(b): CHAPS effect on LT K63 dissociation in combination with L-Arginine

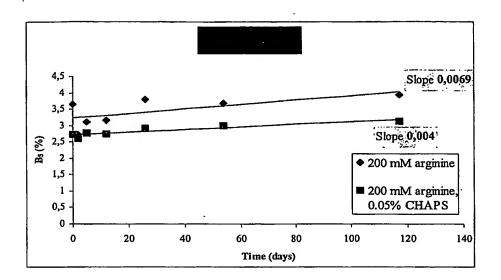


Figure 12: Effect of L-Arginine and CHAPS on LTK 63 stability at a protein concentration of 1,3 mg/ml

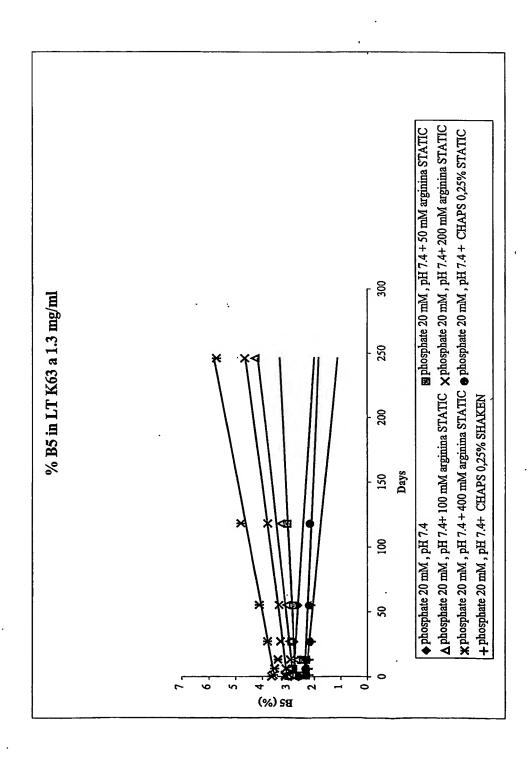
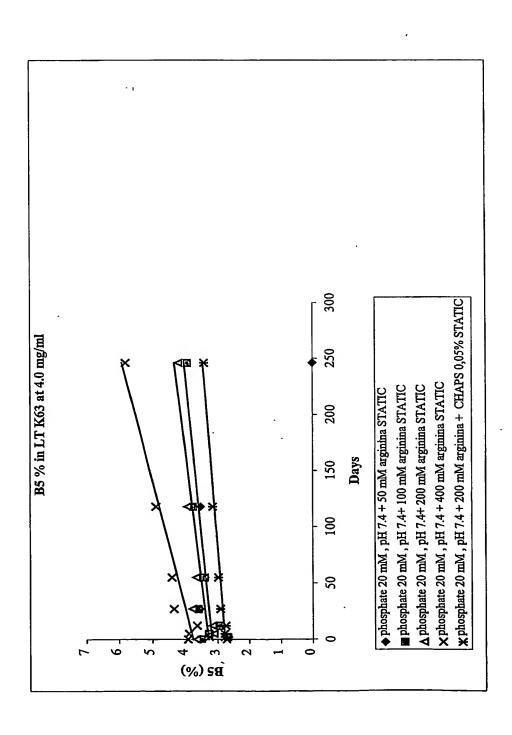


Figure 13: The effect of L-Arginine and the combination L-Arginine/CHAPS on LTK 63 stability at a protein concentration of 4,0



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Figure 14 shows the effect of storage conditions on LTK 63 stability in L-Arginine + CHAPS containing buffers

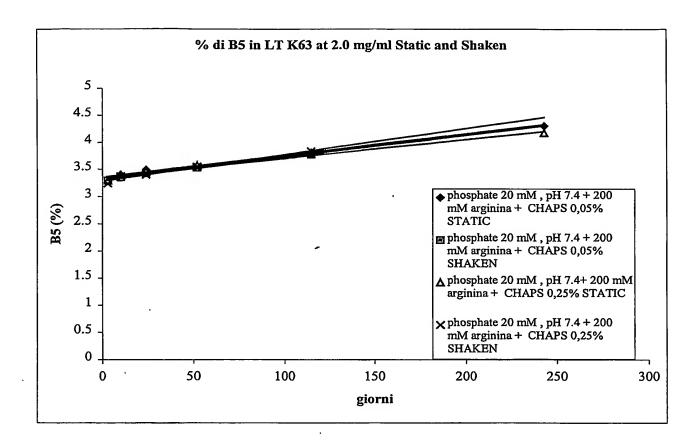
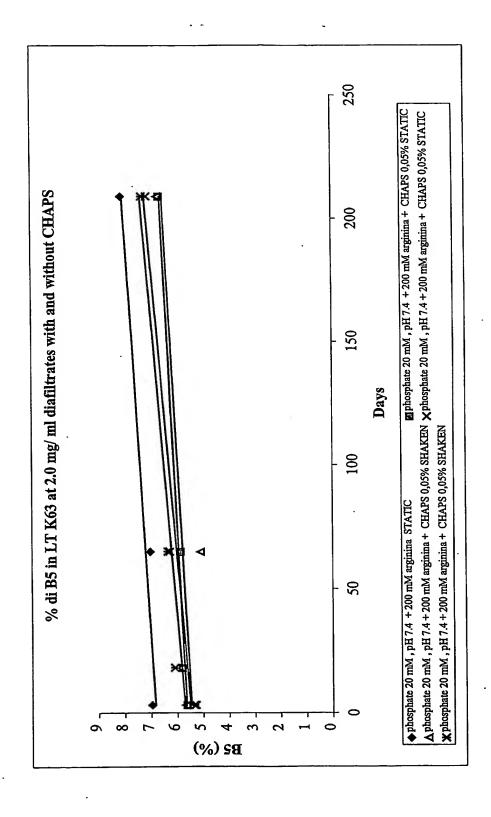


Figure 15: Comparison of LTK 63 stability on L-Arginine and L-Arginine + CHAPS storage buffers



ntinued)	dimethylglycine }	x = 7, ZWITTERGENT® 3-08 x = 9, ZWITTERGENT® 3-10 x = 11, ZWITTERGENT® 3-12 x = 13, ZWITTERGENT® 3-14 x = 15, ZWITTERGENT® 3-16	x = H, CHAPS x = OH, CHAPSO
Table 2. Structure and Classification of Detergents (continued)	CH3 CH3(GH2)11—N ²⁺ CH2—COO pH≥6 CH3	CH3(CH2)X—N*—(CH2)3—S—O CH3(CH2)X—N*—(CH2)3—S—O CH3	FID HO OH HO OH
		Zwittergentis	

Figure 17

		Zwitt	Zwitterjonic Detergents	gents			
Product		Cat. No.	M.W. (anhydrous	CMCb (mM)	Aggregation No.	Average Micellar Weight	size
ASB-14		182750	434.7				59,25 g
CHAPS		220201	614.9	6-10	4-14	6000 6000	19 19 109 1
CHAPSON TO COME.		252000	63000FF 77 2995	43		7000	2.5 y
EMPIGEN BP® Detergent, 30% Solution	gent, 30% Solution	324690	272.0	E 013 64 1.6-2.1			100 ml
Aleun/Idmethylamil	kleuk/idimeth/jamiheioxide (EpAO)/30%55Uuton Zivittencente 3-08 petergent	693019	279.6 279.6	330		17.000 X 14.	Aloomic and
2/VITTERGENIT® 3-10 Detergent ZWITTERGENIT® 3-12 Detergent	Ölüstelyaemi 2 Detergent	693016 693015	335.6	25.10	55	18,500	5.9
ZAVINTERGENTP 3-114(Deteice)	иовейден —	710669	363.0(1)	4,011-04 F	100 (100 (100 (100 (100 (100 (100 (100		25 g
ZWITTERGENT®3-1	6 Detergent	693023	391,6	0,01-0,06	155	60,000	5.g 25.g

a. Averago molecular weights are given for defengents composed of mixtures of chair lengths; b. Tempétature: 20 - 25°C

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